	Application No.	Applicant(s)	
		FARRAR ET AL.	
Notice of Allowability	09/940,792 Examiner	Art Unit	
	Eugene Lee	2815	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS (rewith (or previously mailed), a Notice of Allowance (PTOL-85) of OTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RICE the Office or upon petition by the applicant. See 37 CFR 1.313	or other appropriate comr	ho mailed in due COUIS	e. THIS ne initiative
☐ This communication is responsive to 3/27/06.			
	and 76-81.		·
Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") mu (a) ☐ including changes required by the Notice of Draftsper 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	been received. been received in Application to MENT of this application. Initted. Note the attached les reason(s) why the oat st be submitted. Son's Patent Drawing Receives Amendment / Commentation to 1.84(c)) should be written the header according to 3	tion No yed in this national stage application of the drawings in the front (not the bar 7 CFR 1.121(d).	ments CE OF
 each sheet. Replacement sheet(s) should be labeled as such in DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT 			
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Attachment(s)	5. 🗌 Notice	of Informal Patent Application (PTO-	152)
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	3) 6. ☐ Intervi	ew Summary (PTO-413),	
Displaying Statements (PTO-1449 or PTO/SI	3/08), 7. ⊠ Exami	ner's Amendment/Comment	
Paper No./Mail Date 3/2/100 3/08/24/101/3/1/2014	it 8. ⊠ Exam	ner's Statement of Reasons for Allow	ance
of Biological Material	9. 🗌 Other	·	
	·	EUGENE LEE PRIMARY EXAMINER	

U.S. Patent and Trademark Office PTOL-37 (Rev. 7-05) Notice of Allowability

Part of Paper No./Mail Date 20060613

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DETAILED ACTION

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claims 82-91, previously withdrawn from consideration for being drawn towards a non-elected invention, have been cancelled.

Authorization for this examiner's amendment was given in a telephone interview with Gabriela I. Coman on 1/12/06.

Allowable Subject Matter

2. Claims 46 thru 48, 51 thru 56, 58 thru 60, 62 thru 65, 67 thru 74, and 76 thru 81 are allowed. The following is an examiner's statement of reasons for allowance: The references of record, either singularly or in combination, do not teach or suggest at least an integrated circuit substrate comprising at least one buried conductor pattern provided within a monocrystalline substrate such that said buried conductor pattern is completely surrounded by the same monocrystalline substrate material of a same conductivity type of said monocrystalline substrate, said at least one buried conductor pattern forming at least a part of an interconnect between devices.

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Regarding claims 56, and 58-60, the references of record, either singularly or in combination, do not teach or suggest a buried conductor pattern within a monocrystalline substrate, comprising: at least a buried conductor pattern being completely surrounded by the same monocrystalline substrate material of a same conductivity type of said monocrystalline substrate, said buried conductor pattern forming at least a part of an interconnect between devices.

Regarding claims 62-65, and 67-71, the references of record, either singularly or in combination, do not teach or suggest a processor system comprising: a conductive structure comprising a monocrystalline substrate having at least one empty space pattern; a conductive material filling said empty space pattern such that said conductive structure is completely surrounded by the same monocrystalline substrate material of a same conductivity type of said monocrystalline substrate, said conductive structure forming at least a part of an interconnect between devices.

Regarding claims 72-74, the references of record, either singularly or in combination, do not teach or suggest at least an integrated circuit substrate comprising a plurality of buried conductor patterns provided within a monocrystalline substrate such that said buried conductor patterns are completely surrounded by the same monocrystalline substrate material of said monocrystalline substrate, said buried conductor patterns forming at least a part of an interconnect between devices.

Regarding claims 76-81, the references of record, either singularly or in combination, do not teach or suggest at least an integrated circuit substrate comprising first and second buried conductor patterns provided within a monocrystalline substrate such that said buried conductor

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patterns are completely surrounded by the same monocrystalline substrate material of said monocrystalline substrate, said first and second buried conductive patterns forming at least a part of first and second interconnects between devices.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

INFORMATION ON HOW TO CONTACT THE USPTO

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Lee whose telephone number is 571-272-1733. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Parker can be reached on 571-272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eugene Lee June 13, 2006

> EUGENE LEE DRINGRY EXAMINER